LUBRON
WATER TECHNOLOGIES

REVERSE OSMOSIS:
OSMO PURE RO 8 SYSTEMS

Scope of supply:

Industrial range of R0 series, pre-assembled and ready for plug and play installation on site. The R0 unit is built upon a stainless steel frame including suitable sized pre-filter, HP pump, membrane modules, pressure gauges, conductivity measurement, flow sensors and control panel.

Set up of the RO unit:

- 5 micron pre-filter in feed water inlet to safeguard RO unit
- Pressure gauges before and after pre-filtration.
- Inlet solenoid valve (NC)
- Pressure switch to safeguard the RO pump against possible dry running
- Centrifugal pump for boosting pressure towards the membranes
- Spiral wound composite polyamide membranes in GRP pressure vessels.
- Pressure gauges before and after the membrane modules.
- Conductivity probe in permeate outlet - temperature compensated.
- Flow sensors in permeate, concentrate and circulation stream.
- Concentrate regulator valve to adjust recovery ratio of the R0 unit.
- Circulation regulator valve to adjust circulation stream and pressure over the RO unit.

Control of the RO unit:

Central control panel mounted on front of the SS frame including plc controller with 2-line LCD display, temperature compensated conductivity transmitter and flow sensors. The status of the RO unit (service, rinse or stand-by), permeate, concentrate and circulation flow of the unit can be read on the LCD display. The recovery ratio of the RO unit during service, conductivity of the permeate stream, level indication of optional storage tank and alarm messages can also be viewed. inputs available for teed water pressure switch, external stop signal, motor relay, analogue or digital level input. Outputs available for inlet solenoid valve, RO pump, concentrate rinse valve, permeate valve, potential free alarm output.

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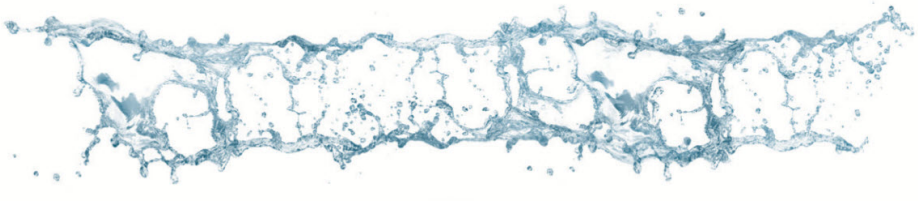

Features

- Alarm indication and automatic switch off when feed water pressure is below set point (O.8 bar).
- Display read out of permeate conductivity and flows within the RO unit
- Alarm indication when permeate conductivity has exceeded minimum or maximum set point.
- Automatic membrane flush before RO unit goes into stand-by position.
- Automatic interval rinse after time interval between two service periods.
- Alarm indication when recovery ratio has gone over the set point.
- Alarm indication when concentrate stream has gone below minimum set point.
- Alarm indication when circulation stream has gone below minimum set point.
- Alarm indication when permeate has exceeded minimum or maximum set point.
- Automatic switching of the RO unit , depending on alarm settings.
- Service hours counter: time and date in display.
- Alarm history; read out of the past 30 alarm messages of the RO unit.
- Modular set up allowing easy upgrade should a larger future flow capacity be required within the available series limits.

TECHNICAL DATA		OSMO-Pure RO8-2900	OSMO-Pure RO8-4000	OSMO-Pure RO8-5500	OSMO-Pure RO8-6500	OSMO-Pure RO8-8000
Permeate capacity	m^3/h	2.9	4.0	5.50	6.50	8.00
Daily permeate production	m^3	67	92	127	150	185
Recovery ratio	%	75	75	75	75	75
Working pressure	bar	13.8	12.9	13.3	12.7	13.2
Feed water	m^3/h	3.90	5.33	7.33	8.67	10.67
Salt rejection	%	96-99	96-99	96-99	96-99	96-99
Max TDS feed water	mg/l	1000	1000	1000	1000	1000
Area /service temp.	°C	5-30	5-30	5-30	5-30	5-30
Water connections						
Feed	DN	32	32	40	40	50
Permeate	DN	25	32	32	40	40
Drain	DN	50	50	50	50	50
Electrical connections	V, Hz		400 V / 3 Ph / 50 Hz			
Power installed	kW	5.50	5.50	5.50	5.50	7.50
Dimensions	mm		width = 2650 depth = 900 height = 1955			

The RO unit design is based upon pre-treated feed water quality (chlorine, iron and manganese free) max TDS of 1000 mg/l; temperature 15°C; SDI < 3 and inlet pressure min. 2,0 bar. The feed water quality will ultimately determine the performance of the RO unit.

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